

Environmentally degradable finely attenuated fibers produced by melt spinning a composition comprising destructurized starch, a biodegradable thermoplastic polymer, and a plasticizer are disclosed. The present invention is also directed to highly attenuated fibers containing thermoplastic polymer microfibrils which are formed within the starch matrix of the finely attenuated fiber. Nonwoven webs and disposable articles comprising the highly attenuated fibers are also disclosed.